

FORM PTO-1449

ATTY. DOCKET NO.
I-2-32.3USSERIAL NO.
09/843,520U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEAPPLICANT
Donald L. SchillingINFORMATION DISCLOSURE
STATEMENT BY APPLICANTFILING DATE
April 27, 2001GROUP
2631

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>FE</i>	AA*	3	8	3	1	0	1	3	8/74	Alsup et al.			
<i>FE</i>	AB*	3	8	3	8	3	4	2	9/74	Bjorkman			
<i>FE</i>	AC*	3	9	0	0	7	2	1	8/75	Speiser et al.			
<i>FE</i>	AD*	4	1	1	2	3	7	2	9/78	Holmes et al.			
<i>FE</i>	AE*	4	1	8	9	6	7	7	2/80	Cooper et al.			
<i>FE</i>	AF*	4	1	9	3	0	3	1	3/80	Cooper			
<i>FE</i>	AG*	4	2	2	2	1	1	5	9/80	Cooper et al.			
<i>FE</i>	AH*	4	2	3	8	8	5	0	12/80	Vance			
<i>FE</i>	AI*	4	2	4	7	9	4	2	1/81	Hauer			
<i>FE</i>	AJ*	4	2	8	5	0	6	0	8/81	Cobb et al.			
<i>FE</i>	AK*	4	3	9	2	2	3	2	7/83	Andren et al.			
<i>FE</i>	AL*	4	4	1	8	3	9	3	11/83	Zscheile, Jr.			

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	AM*	2	2	2	9	6	0	9	9/90	Great Britain				
	AN*	9	1	0	7	0	3	7		PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AO*		Fluhr, Z.C. and Porter, P.T., "Advanced Mobile Phone Service: Control Architecture", The Bell system Technical Journal (Jan. 1979), Vol. 58, No. 1, pp. 43-69.

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<i>LB</i>	AP*	4	4	1	8	4	2	5	11/83	Fennel, Jr. et al.			
<i>LB</i>	AQ*	4	4	2	5	6	4	2	1/84	Moses et al.			
<i>LB</i>	AR*	4	4	5	5	6	5	1	6/84	Baran			
<i>LB</i>	AS*	4	4	7	9	2	2	6	10/84	Prabhu et al.			
<i>LB</i>	AT*	4	4	8	4	3	3	5	11/84	Mosley et al.			
<i>LB</i>	AU*	4	5	1	2	0	1	3	4/85	Nash et al.			
<i>LB</i>	AV*	4	5	2	3	3	1	1	6/85	Lee et al.			
<i>LB</i>	AW*	4	5	3	8	2	8	0	8/85	Mosley, Jr. et al.			
<i>LB</i>	AX*	4	5	5	3	1	3	0	11/85	Kato			
<i>LB</i>	AY*	4	5	6	3	7	7	4	1/86	Gloge			
<i>LB</i>	AZ*	4	6	0	6	0	3	9	8/96	Nicolas et al.			
<i>LB</i>	BA*	4	6	1	2	6	3	7	9/86	Davis et al.			

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													YES	NO
	BB*	8	6	0	0	4	8	6		PCT				
	BC*	0	2	6	5	1	7	8	4/88	Europe				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BD*		DeGaudenzi, R. and Viola, R., "A Novel Code Division Multiple Access System for High Capacity Mobile Communications Satellites", ESA Journal (1989), Vol. 13, pp. 303-322.
BE*		Stiffler, J.J., Theory of Synchronous Communications (Prentice-Hall, Inc., New Jersey), table of contents listing.

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<i>B</i>	BF*	4	6	2	1	3	6	5	11/86	Chiu			
<i>B</i>	BG*	4	6	3	9	9	1	4	1/87	Winters			
<i>B</i>	BH*	4	6	4	1	3	2	2	2/87	Hasegawa			
<i>B</i>	BI*	4	6	4	7	8	6	3	3/87	Skudera, Jr. et al.			
<i>B</i>	BJ*	4	6	4	9	5	4	9	3/87	Halpern et al.			
<i>B</i>	BK*	4	6	5	3	0	6	9	3/87	Roeder			
<i>B</i>	BL*	4	6	6	0	1	6	4	4/87	Leibowitz			
<i>B</i>	BM*	4	6	7	2	6	0	5	6/87	Hustig et al.			
<i>B</i>	BN*	4	6	7	2	6	2	9	6/87	Beier			
<i>B</i>	BO*	4	6	7	2	6	5	8	6/87	Kavehrad et al.			
<i>B</i>	BP*	4	6	7	5	8	3	9	6/87	Kerr			
<i>B</i>	BQ*	4	6	8	0	7	8	5	7/87	Akiyama et al.			

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													YES	NO
	BR*	9	1	1	5	0	7	1	10/91	PCT				
	BS*	0	3	9	2	0	79	A2	10/90	EPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BT*		Scholtz, Robert A., "The Origins of Spread-Spectrum Communications", IEEE Transactions on Communications (May 1982), Vol. Com. 30, No. 5; pp. 822-855.
BU*		Nettleton, Raymond W., Spectral Efficiency in Cellular Land-Mobile Communications: A Spread-Spectrum Approach (1978) (unpublished Ph.D. Dissertation, Purdue University).

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<i>8</i>	BV*	4	6	9	1	3	2	6	9/87	Tsuchiya			
<i>8</i>	BW*	4	6	9	7	2	6	0	9/87	Grauel et al.			
<i>8</i>	BX*	4	7	0	3	4	7	4	10/87	Foschini et al.			
<i>8</i>	BY*	4	7	0	7	8	3	9	11/87	Andren et al.			
<i>8</i>	BZ*	4	7	1	8	0	8	0	1/88	Serrano et al.			
<i>8</i>	CA*	4	7	3	0	3	4	0	3/88	Frazier, Jr.			
<i>8</i>	CB*	4	7	4	2	5	1	2	5/88	Akashi et al.			
<i>8</i>	CC*	4	7	5	5	9	8	3	7/88	Masak et al.			
<i>8</i>	CD*	4	7	5	9	0	3	4	7/88	Nagazumi			
<i>8</i>	CE*	4	7	7	5	9	9	5	10/88	Chapman et al.			
<i>8</i>	CF*	4	7	8	9	9	8	3	12/88	Acampora et al.			
<i>8</i>	CG*	4	7	9	9	2	5	3	1/89	Stern et al.			

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													YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CH*		Cooper, George R. and Nettleton, Ray, W., "Cellular Mobile Technology: The Great Multiplier," IEEE Spectrum, June 1983, pp. 30-37.
CI*		Blasbalg, H., "A Comparison of Pseudo-Noise and Conventional Modulation for Multiple-Access Satellite Communications," IBM Journal of Research Development, Vol. 9, No. 4, Jul. 1965, pp. 241-255.
CJ*		Salmas; et al., "On the System Design Aspects of Code Division Multiple Access (CDMA) Applied to Digital Cellular and Personal Communication Networks" IEEE Vehicle Technology Conference, 19-22 May 1991, pages 57-62

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<i>B</i>	CK*	4	8	0	5	2	0	8	2/89	Schwartz			
<i>B</i>	CL*	4	8	0	7	2	2	2	2/89	Amitay			
	CM*	4	8	1	1	4	2	1	3/89	Havel et al.			
<i>B</i>	CN*	4	8	3	7	8	0	2	6/89	Higashiyama et al.			
<i>B</i>	CO*	4	8	4	3	6	1	2	6/89	Brusch et al.			
<i>B</i>	CP*	4	8	5	0	0	3	6	7/89	Smith			
<i>B</i>	CQ*	4	8	6	0	3	0	7	8/89	Nakayama			
<i>B</i>	CR*	4	8	6	6	7	3	2	9/89	Carey et al.			
<i>B</i>	CS*	4	8	9	4	8	4	2	1/90	Broekhoven et al.			
<i>B</i>	CT*	4	8	9	9	3	6	4	2/90	Akazawa et al.			
<i>B</i>	CU*	4	9	0	1	3	0	7	2/90	Gilhousen et al.			
<i>B</i>	CV*	4	9	1	4	6	5	1	4/90	Lusignan			

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													YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	CW*		Dixon, Robert C., Spread Spectrum Systems (John Wiley & Sons, Inc.: New York, 3d ed. 1994), pp. 412-413.
	CX*		The International Dictionary of Physics and Electronics (D. Van Nostrand Co.: Princeton, NJ, 2d ed. 1961), pp. 612, 952.

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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Q</i>	CY*	4	9	2	2	5	0	6	5/90	McCallister et al.			
<i>Q</i>	CZ*	4	9	3	0	1	4	0	5/90	Cripps et al.			
<i>Q</i>	DA*	4	9	3	2	0	3	7	6/90	Simpson et al.			
<i>Q</i>	DB*	4	9	5	8	3	5	9	9/90	Kato			
<i>Q</i>	DC*	4	9	6	9	1	5	9	11/90	Belcher et al.			
<i>Q</i>	DD*	4	9	7	7	5	7	7	12/90	Arthur et al.			
<i>Q</i>	DE*	4	9	7	7	5	7	8	12/90	Ishigaki et al.			
<i>Q</i>	DF*	4	9	9	1	1	6	4	2/91	Casiraghi et al.			
<i>Q</i>	DG*	4	9	9	3	0	2	1	2/91	Nannicini et al.			
<i>Q</i>	DH*	5	0	0	5	1	6	9	4/91	Bronder et al.			
<i>Q</i>	DI*	5	0	1	6	2	5	5	5/91	Dixon et al.			
<i>Q</i>	DJ*	5	0	1	6	2	5	6	5/91	Stewart			

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DK*		Robinson, Vester, Solid-State Circuit Analysis (Reston Publishing Co.: Reston, VA, 1975), pp. 309-314.
DL*		Alavi, Hossein, Power Control and Interference Management in a Spread-Spectrum Cellular Mobile Radio System (1984) (Unpublished Ph.D. Dissertation, Michigan State University).

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B	DM*	5	0	2	2	0	4	7	6/91	Dixon et al.			
2	DN*	5	0	2	3	8	8	7	6/91	Takeuchi et al.			
8	DO*	5	0	2	9	1	8	1	7/91	Endo et al.			
4	DP*	5	0	4	0	2	3	8	8/91	Comroe et al.			
4	DQ*	5	0	4	8	0	5	2	9/91	Hamatsu et al.			
76	DR*	5	0	5	6	1	0	9	10/91	Gilhousen et al.			
76	DS*	5	0	7	3	9	0	0	12/91	Mallinckrodt			
4	DT*	5	0	8	6	5	0	8	2/92	Furuno			
2	DU*	5	0	9	3	8	4	0	3/92	Schilling			
4	DV*	5	1	0	1	5	0	1	3/92	Gilhousen et al.			
4	DW*	5	1	0	3	4	5	9	4/92	Gilhousen et al.			
4	DX*	5	1	0	9	3	9	0	4/92	Gilhousen et al.			
76	DY*	5	1	2	9	0	9	8	7/92	McGirr et al.			

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DZ*		M.B. Pursley, "Performance Evaluation for Phase-Coded Spread-Spectrum Multiple-Access Communication - Part I: System Analysis", IEEE Transactions on Communications, Com-25, No. 8, August, 1997.
EA*		J.M. Holtzman, "A Simple, Accurate Method To Calculate Spread-Spectrum Multiple-Access Error Probabilities", IEEE Transactions on Communications, Vol. 40, No. 3, March 1992.

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EB*	5	2	5	7	2	8	3	10/93	Gilhousen et al.				
EC*	5	2	6	5	1	1	9	11/93	Gilhousen et al.				
ED*	5	2	6	7	2	6	2	11/93	Wheatley III				
EF*	5	2	9	9	2	2	6	3/94	Schilling				
EG*	5	3	3	9	3	3	0	8/94	Mallinckrodt				
EH*	5	3	8	6	5	8	8	1/95	Yasuda				
EI*	5	3	9	6	5	1	6	3/95	Padovani et al.				

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													YES	NO

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EJ*	Ormondroyd, R.F., "Power Control for Spread-Spectrum Systems," Conference on Communications Equipment and Systems, 20-22, April 1982, pp. 109-115.
EK*	Munday & Pinches, "Jaguar-V Frequency-Hopping Radio System," 8049 IEEE Proceedings Section A-B, Vol. 129 (1982), June, No. 3, Part F, Old Woking, Surrey, Great Britain
EL*	IS95, Section 7.1.3.1.7 and Fig. 7.1.3.1.7-2

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